Guess Paper Biology inter -I

Al-Qadir Jinnah Science Academy Mallian Kalan

# **Guess Paper 2021 (ALP)**

MITERIE J. CO.

امتحان میں 100% کامیابی کی گارنٹی

# BIOLOGY

\ Setter كذ بن كومد نظرر كه كرتيار كي كخ سوالات

اب وقت انتهائی کم ره کیا ہے۔

\*صرف 15دن کے اندر بورڈ امتحان کی مکمل تیاری کویں۔

الم ترين مخفسر وانوائي اور حسل شده معسروضي موالات كالم

MCQ S.Qs L.Qs 337 221 15

پنجاب کے تمام بورڈ کے لیے (اعلیٰ نمبروں کے حصول کی ضمانت)

ہمیں تشہید کی خواہش نہیں بسس روسشن کی ہے کی کو مت بتانا یہ دیے ہم نے حبلائے ہیں

## **Objective Type**

1	The basic unit of classification is					
	a) Genus	b) Phylum	✓c) Species	d) Class		
2	Orders include related	1				
	a) Species	√b) Genera	c) Classes	d) Family		
3	The thick walled repro	ductive cells of cyanobacter	ia are called	W. AF .		
	a) Heterocyts	√b) Akinete	c) Hormogonia	d) All of these		
4	Which of the one in th	e following is a prokaryote		100		
	a) Amoeba	b) Algae	c) Fungi	√d) Blue green algae		
5	Reserve food material	In Cyanobacteria is	. 1070	A 100		
	a) Starch	√b) Glycogen	c) Fats	d) All of these		
6	An example of aerobic	bacterium is	10 10 10	of %		
	a) Camplyobacter	b) E.Coli	√c) Pseudomonas	d) Spirochete		
7	Which one of t he foll	owing is anaerobic bacteria	AND WAY			
	a) E.Coli	b) Spirochete	√c) Pseudomonas	d) Campylobacter		
8	Bacteria without any	flagella are called	Par II Po			
	a) Peritrichous	√b) Atrichous	c) Monotrichous	d) None of these		
9	Reserve food materia	in cyanobacteria is	465463.			
	√a) Glycogen	b) Cellulose	c) Glucose	d) Starch		
10	Which is the anaerobi	c bacterium	-			
	√a) Spirochete	b) Pseudomonas	c) Campylobacter	d) E.Coli		
11	Spirochete is a bacterium					
	a) Aerobic	√b) Anaerobic	c) Facultivate	d) None of these		
12	The pore by which the	water leaves the body of sp	onges is called			
	a) Ostia	b) Mouth	c) Anus	√d) Osculum		
13	The inner layer of mo:	st sponges is called				
	a) Pinacoderm	√b) Choanoderm	c) Endoderm	d) Epiderm		
14	An example of beautiful and delicate sponge called Venus flower basket is					
	a) Sycon	b) Leucosolenia	c) Euplectella	√d) Spongilla		
15	In sponges asexual rep	production takes place by bu	ding . The internal buds are	called		
	a) Globules	√b) Gemmules	c) Endosperm	d) Cyst		
16	Excess gastric secretic	n is an important factor of	,	•		
	a) Obesity	b) Piles	c) Food poisoning	√d) Peptic ulcer		
17	Fresh saliva has pH					
	a) 4	√b) 6	c) 8	d) 7.3		
18	Taste buds of tongue	play important role in food				
	a) Digestion	√b) Selection	c) Lubrication	d) Mastication		
19	Which of the followin					
	a) Drosera	b) Dionea	√c) Cuscuta	d) Sarracenia		
20	pH of fresh saliva is no	early		1		
	√a)6	b) 7	c) 8	d) 9		
21		ns is an important factor of				

	√a) Peptic ulcer	b) Obesity	c) Piles	d) Food poisoning	
22	Length of the duodenum	is			
	a) 20 - 25 cm	√b) 20 - 25 meters	c) 20 - 25 mm	d) 20 - 25 Km	
23	Which one of the followi	ng is not a ciliate ?		2 20 1 1 10 10 10 10 10 10 10 10 10 10 10 1	
	a) Stentor	b) Paramecuim	√c) Trypanosoma	d) Vortecella	
24	One or small diploid mice	onodel of cillates function	in .		
	a) Sexual process	√b) Sheath	c) Pellicle	d) Cuticle	
25	Test of forminifera is made	de of .		A 200 A	
	a) Silica	b) Calcium	√c) Calcium phosphate	d) Chitin	
26	Mosquito Injects		0	A BOLL	
	a) Merozoites	b) Oocytes	c) Gametocytes	√d) Sporozoites	
27	Apicomplexans move by		a 979	1	
	a) Tube feet	b) Cilia	√c) Flexing	d) Pseudopodia	
28	Mosquito injects plasmo	dium to human in the form	of.	3. 40	
	√a) Sporozoites	b) Gametocytes	c) Merozoites	d) Cysts	
29	The sexual process is exhibited by most cilites by .				
	a) Binary fission	√b) Conjugation	c) Budding	d) Fertilization	
30	Sleeping sickness is sprea	id by .	" B B"	· · · · · · · · · · · · · · · · · · ·	
	√a) Tsetse fly	b) Mosquito	c) Trypanosoma	d) Plasmoduim	
31	Study of tissue is called .		A		
	a) Microbiology	b) Morphology	√c) Histology	d) Anatomy	
32	The branch of Biology which deals with the study of environment relations of organisms is called .				
	a) Morphology	✓b) Ecology	c) Evolution	d) Zoogeography	
33	The study of parasite is o		0		
	a) Paleontology	b) Histology	c) Mircorbiology	d) Parasitology	
34	Internal morphology is al	so called .			
	a) Physiology	√b) Anatomy	c) Histology	d) Paleontology	
35	The branch of biology which deals with study of ancestral history is .				
	a) Genetics	b) Zoogerography	c) Evolution	√d) Paleontology	
36	Biology is short of laws b	ecause of .			
	√a) Exclusive nature of life	b) Large population of human	c) Less falsification	d) Less tentation	
37	The tentative explanation	n of observation .			
	a) Hypothesis	b) Deduction	c) Law	d) Theory	
38	In deductive reasoning w	e move from .			
	√a) General to specific	b) General to general	c) Specific to general	d) Specific to specific	
39	If a theory survives and o	ontinues to be supported b	y experimental evidence be	comes a .	
	a) Hypothesis	b) Universal formula	✓c) Scientific law	d) Deduction	
40	Transgenic plants can be	propagated by .			
	a) Gene manipulation	✓b) Cloning	c) Genetic engineering	d) Tissue culture technique	
	Which of the following are being used as blo - pesticides ?				
41	Which of the following a	re being used as bio - pestic	ides ?		

	a) Edward jenner	b) Robert Koch	c) Chamberlandt	✓d) Louis Pasteur		
43	The percentage by weigh	t of RNA in a bacterial cell	is.			
	a) 0.25 %	b) 2 %	c) 3 %	√d) 6 %		
44	Which of the following is	a group of organic compo	unds?			
	a) Lipids , nucleic acids and nitric acid	✓b) Carbohydrates , lipids , nucleic acids	c) Proteins , acids , lipids	d) Carbon dioxide , acids bases		
45		acterial cell , carbohydrate	s constitute only	ASS .		
43	a) 2 %	b) 1 %	√c) 3 %	d) 4 %		
46		of a mammalian cell is the	1	4) 478		
40	a) Water	✓b) Proteins	c) Carbohydrates	d) Lipids		
47	-	mmalian cell , DNA forms .	c) carbonyurates	u) cipius		
4/		b) 1.1 %	-1 C 0/	( A A A A A A A A		
	a) 1 %		c) 6 %	√d) 0.25 %		
48	In bacterial cells the water		Liza Ni	Loren		
	√a) 70 %	b) 40 %	c) 60 %	d) 50 %		
49		ates in mammalian cell is .	99, 3,			
	a) 1 %	b) 2 %	c) 3 %	√d) 4 %		
50	In free state , glucose in p		V 200 "			
	√a) Dates	b) Amylose	c) Glycogen	d) Cellulose		
51	Most abundant carbohyo	frate in nature is .	L. About of			
	a) Statch	b) Glycogen	✓c) Cellulose	d) Agar		
52	Cotton is a pure .	rib.	70.			
	√a) Cellulose	b) Polysaccharide	c) Cellulose	d) Both a & b		
53	Animals obtain carbohydrates mainly from .					
	a) Glucose	√b) Starch	c) Sucrose	d) Glycogen		
54	Which one of following is	not a Upid ?				
	a) Rubber	√b) Chitin	c) Cutin	d) Cholesterol		
55	A heterogeneous group o	of compound related to fat	ty acid is .			
	a) Proteins	The state of the s	c) Carbohydrate	d) Nucleic Acid		
56	Lipids are insoluble in .	10x 10x0				
	√a) Water	b) Chloroform	c) Alcohol	d) Carbon tetra chloride		
57	Which one of the follows		4) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	a) Cholesterol	b) Wax	c) Terpenes	√d) Keratin		
58	Iron containing protein is		of sarbaines	V u) Kerbun		
30	a) Cytochrome	√b) Ferredoxin	c) Plastocyanin	d) Plastoquinone		
59	Which of the following is	2	cy i idatocydinia	d) i iestoquinone		
23	a) Keratin	b) Myocin	c) Fibrin	AR Maintain		
60	in the	O/ MYOCIII	C) Florin	√d) Hormones		
60		l b) 4.C	l-irc	ALC C		
	√a) 3-6	b) 4-6	c) 5-6	d) 6-6		
61		rmones and hemoglobin a		A 12-24		
	a) Carbohydrates	√b) Globular proteins	c) Fibrous proteins	d) Lipīds		
62		ple of which functional clas		1		
	a) Contractile	b) Structural	√c) Transport	d) Regulatory		
63	Type of bond associated	with maintaining primary :	structure of protein is .			
	√a) Disculfide bond	b) Peptide bond	c) Ester bond	d) Hydrogen bond		

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64	Type of bond principally as	ssociated with maintaining	alpha helix shape of protei	n;
	a) Disulphide bond	b) Peptide bond	c) Ester bond	√d) Hydrogen bond
65	Which of the following str	ucture is best represents st	ructure of haemoglobin?	
	a) Primary	b) Secondary	c) Tertiary	√d) Quaternary
66	Amino acids are linked to	each other by .		
	a) Ester bond	b) Glysocidic	c) Hydrophobic	√d) Peptide bond
67	An amino acid contains an	amino group and a carbox	yl group attached to the sa	me .
	√a) Carbon atom	b) Hydrogen atom	c) Nitrogen atom	d) Oxygen atom
68	Poisons like cyanide , antil	biotics , anti-metabolites ar	nd some drugs are example	s of .
	a) Holoenzymes	√b) Inhibitors	c) Coenzymes	d) Enzymes
69	An inhibitor is a chemical		- 9	Va. 4"
	a) Enzyme	b) Protein	√c) Substance	d) None of these
70	An inhibitor react with ena	zyme but not transformed	into A A	Ph.
	a) Enzyme	√b) Product	c) Co-enzyme	d) None of these
71	The inhibitor which may d	estroy the globular structu	re of enzyme is .	
	a) Competitive	b) Non-competitive	√c) Irreversible	d) Reversible
72	Irreversible inhibitors form	n which bond with active si	te ?	
	a) Hydrogen bonds	b) Ionic bonds	✓c) Covalent bonds	d) Hydrophobic bonds
73	The reversible inhibitors u	sually constitute	Allen	
	a) Strong linkage with	b) No linkage with	✓c) Weak linkage with	d) Medium linkage with
	enzyme	enzyme	enzyme	enzyme
74	Non-competitive inhibitor	s form enzyme inhibitor co	mplex at a point other than	
	a) Catalytic site	✓b) Active site	c) Binding site	d) Non-catalytic site
75	Three dimensional globula	r protein is .	)	
	a) Starch	b) Glucose	c) Antibiotic	√d) Enzyme
76	Enzyme lowers down the	energy of .		
	a) Kinetic	b) Potential	✓c) Activation	d) Ionic
77	Small amounts of an	4 84		
	a) Protein	b) Lipid	✓c) Enzyme	d) None of these
78	Some enzymes require a	for their proper function	ing .	
	a) Co-enzyme	√b) Co-factor	c) Holoenzyme	d) Apoenzyme
79	Pepsinogen is an			
	a) Active	√b) Inactive	c) Inhibitor	d) None of these
80	Which statement about er	rzyme is not true ?		
	a) They consist of	b) They change the rate	c) They are sensitive to	√d) They are non-
	proteins, with or without	of catalyzed reaction	heat	specific in their action
	a non-protein part	netenet eretete		
81	An enzyme is a three dime		Z Let L. L.	d) Insoluble
-	a) Fibrous	b) Elastic	✓c) Globular	a) instituble
82	Induced fit model was pro	2	1 -1 1	d\ Dastaur
-	a) Emil Fisher	√b) Koshland	c) Jenner	d) Pasteur
83	Lock and key model was p		a) fluidal-la Markani	d) I asses Olive
	√a) Emil Fisher	b) Koshland	c) Rudolph Virchow	d) Lorenz Oken
84	Any factor that can alter the	ne chemistry and shape of :	an enzyme can effect its rat	e or .

	a) Activity	b) Hydrolysis	√c) Catalysis	d) Photolysis	
85	The catalytic activity of	an enzyme is restricted to its s	mall portion called .		
	√a) Active site	b) Allosteric site	c) Binding site	d) Catalytic site	
86	Koshland in 1959 propos	sed the modified form of .			
	a) Fluid mosaic model	b) Unit membrane model	c) Induce Fit model	√d) Lock and key model	
87	The active site of the en	zyme is made up of two defin	ite regions i.e., the binding	site and the	
	a) Non-binding site	b) Non-catalytic site	c) Inactive site	√d) Catalytic site	
88	The non protein part of	enzyme responsible for its pro	per functioning is known	as. Wall A	
	a) Substarte	√b) Cofactor	c) Reactant	d) Product	
89	Poisons like cyanide , an	itibiotics , anti-metabolites an	d some drugs are example	s of .	
	a) Holoenzymes	√b) Inhibitors	c) Coenzymes	d) Enzymes	
90	An inhibitor is a chemica	al	A 95 9	A. Company	
	a) Enzyme	b) Protein	√c) Substance	d) None of these	
91	An inhibitor react with e	enzyme but not transformed i	nto Sala Sala	B 79	
	a) Enzyme	√b) Product	c) Co-enzyme	d) None of these	
92	The inhibitor which may	destroy the globular structur	e of enzyme is .	,	
	a) Competitive	b) Non-competitive	√c) Irreversible	d) Reversible	
93	Irreversible inhibitors fo	rm which bond with active sit	te ?		
	a) Hydrogen bonds	b) Ionic bonds	√c) Covalent bonds	d) Hydrophobic bonds	
94	The reversible inhibitors usually constitute .				
	a) Strong linkage with	b) No linkage with	√c) Wear linkage with	d) Medium linkage with	
	enzyme	enzyme (1)	enzyme	enzyme	
95	Robert Brown reported	the presence of			
	a) Lysosome	b) Ribosomes	c) Mitochondria	√d) Nucleus	
96	Nucleus can be seen in a	. 6-6			
	a) Mature cell	√b) Non-dividing cell	c) Germinating cell	d) Dividing cell	
97	Nucleus contains soluble	The state of the s			
	a) Protoplasm	b) Cytoplasm	√c) Nucleoplasm	d) Nuclear sap	
98	The size of prokaryotic r	bosome is .			
	a) 30S	b) 50S	√c) 70S	d) 80S	
99	Prokaryotes include blue	e - green algae and .			
	a) Viruses	√b) Bacteria	c) Protozoans	d) Protists	
100	The prokaryotic cell can	divide by .		1	
	a) Multiple fission	b) Mitosis	c) Meiosis	√d) Binary fission	
101	Perhaps the most disting	ctive feature of prokaryotic ce	ell is its .		
	a) Cell membrane	b) Hereditary material	c) Ribosomes	√d) Cell wall	
102	Binomial system of nom	enclature was devised by .		1 1 1 1 1 1 1 1	
	a) E-Chatton	b) Robert Whittaker	c) Ernst Hackle	√d) Carlous Linnaeus	
103	The Common name for s				
	a) Onion	√b) Brinjal	c) Potato	d) Amaltas	
104		of taxonomy , developed duri		-	
	a) Species	√b) Genus	c) Race	d) Family	
105	Linnaeus published his i		W HOVE	white mineral	

Guess Paper Biology inter -I Al-Qadir Jinnah Science Academy Mallian Kalan a) 1747 b) 1748 d) 1753 √c) 1758 In the scientific name of onion, Allium cepa, the Allium belongs to its. 106 b) Group c) Species d) Family √a) Genus Scientific name has advantage of having . 107 a) No scientific basis d) Same name applied to c) Same organisms having √b) Scientific basis and different names in different organism universally accepted different areas Carlous Linnaeus took the scientific name from . 108 d) Urdu word a) Greek word b) Arabic word √c) Latin word Initially, the classification was based on. 109 a) Genetic features d) Cytology b) Physiology √c) Morphology 110 The basic unit of classification is . a) Genus c) Class 10 b) Phylum √d) Species Solanum esculentum is the scientific name of . 111 a) Potato b) Tobacco c) Onion √d) Tomato Phylogeny describes a species. 112 a) Morphological c) Reproductive d) Geographical √b) Evolutionary history similarities with other compatibilities with other distribution species species In the five - kingdom system of classification developed by Robert Whittaker, member of the kingdom 113 Plantae are autotrophic, eukaryotic and. b) Either unicellular or c) Motile d) Have sexual √a) Multicellular multicelliular reproduction Five kingdom system of classification proposed by Margulis and Schwartz is not based on . 114 c) Cellular organization d) Mode of nutrition a) Genetics √b) Nucleic Acid A third Kingdom protista was proposed to accommodate Euglena like organisms and bacteria, in 1866 by . 115 a) E-Chatton c) Linnaeus Carlous d) Aristotle √b) Ernst Hackel The system of classification associated with three principal modes of nutrition photosynthesis, absorption 116 and ingestion was proposed by . b) Carlous Linnaeus c) Margulis & Schawartz d) Ernst Hackel √a) Robert Whittaker Kingdom Animalia include eukaryotic multicellular. 117 b) Reducers c) Producers d) Decomposers √a) Consumers Bactria range in size from about 0.1 to 118 c) 700 d) 800 a) 500 / √b) 600 The smallest bacteria are approximately the size of the largest viruses i.e. 119 a) Paramyxoviruses b) Adenoviruses c) Parvoviruses √d) Poxviruses The diameter of staphylococcus and streptococcus is about . 120 a) 100 - 200 nm b) 1.5 - 2 d) 2 - 6 √c) 0.75 - 1.25 An outer flexible covering of ciliates is . 121 a) Cell wall c) Sheath d) Cuticle √b) Pellicle Amoebic dysentery in . 122 a) Amoeba b) Plasmodium √c) Entamoeba d) Trypanosoma histolytica 123 Entamoeba histolytica cause amoebic. b) Fever a) Cholera d) Migraine √c) Dysentery

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124	The tsetse fly of African	countries transmits trypa	nosome , the cause of .	*
	√a) Sleeping sickness	b) Measles	c) Lung infection	d) Malaria
125	The protozoans having to	wo kinds of nuclei .		
	a) Zooflagellates	b) Amoeba	√c) Ciliates	d) Actinopods
126	Amoeba moves and obta	ains food by means of .		
	a) Flagella	√b) Pseudopodia	c) Flexing	d) Cilia
127	Pelomyxa palustris is an	example of		000
	a) Bacterium	b) Cilliate	c) Algae	√d) Amocba
128	Pelomyxa Palustris is cor	mmonly called .		S. Soll
	a) Entamoeba	b) Trypanosoma	c) Trichonymphas	✓d) Giant amoeba
129	The example of zooflage	llates is .		The same
	a) Forams	b) Voritcella	c) Entamoeba	√d) Trypanosoma
130	One of the most unusual	protest phylum is that of	D 4 %	1980.
	✓a) Dinoflagellates	b) Zooflagellates	c) Euglenoids	d) Domycotes
131	What regulation in fresh	water cillates is controlle	d by special organelles calle	d.
	a) Vacuoles	b) Golgi apparatus	√c) Contractile vacuole	es d) Lysosomes
132	Complex specialized flag	ellates with many flagella	are.	
	✓a) Trichonymphas	b) Trypanosoma	c) Euglena	d) Vorticella
133	The protists that live as :	symbionts in the guts of t	ermites and help in the dige:	stion of dry wood are .
	√a) Trichonymphas	b) Trypanosoma	c) Euglena	d) Vorticella
134	Members of phylum chr	ysophyta are commonly c	alled.	
	a) Brown Algae	b) Red Algae	c) Dinoflagellates	✓d) Diatoms
135	Algae which take part in	building coral reefs along	with coral animals are .	
	√a) Red algae	b) Brown algae	c) Green algae	d) Diatoms
136	Diatoms belongs to phyl	um.	9	
	a) Rhodophyta	b) Phaeophyta	√c) Chrysophyta	d) Pyrrophyta
137	The largest brown algae	are called .		
	a) Diatoms	√b) Keips	c) Dinoflagellates	d) Gelidium
138	The edible algae is .	10 P. 10.		
	√a) Mushroom	b) Keips	c) Dinoflagellates	d) Diatoms
139	Length of brown algae ra	inge from few centimeter	s to .	
	a) 170 meters	√b) 75 meters	c) 70 meters	d) 75 cm
140	Most green algae posses	s cell wall with .		
	√a) Cellulose	b) Chitin	c) Siliea	d) Pectin
141	Phyco erythrin is found i	s.		
	a) Green algae	✓b) Red algae	c) Brown algae	d) Blue green algae
142	Which of the fallowing p	ossess leaf like blades , st	tem like stipes , and root like	anchoring holdfast ?
	a) Eucalyptus	b) Agaricus	√c) Kelps	d) Phytophthora
143	Most green algae posses	1		1
	✓a) Cellulose	b) Chitin	c) Peptidoglycan	d) Pectin
144	Which phylum of algae o	lo not have forms with fla	gellated motile cells in at lea	ast one stage of their life cycle
	a) Euglenophyta	b) Chlorophyta	(a) Chadanhita	d) Phaeophyta
145	Which is member of Pyri		✓c) Rhodophyta	o) r siacopityta
743	The state of the s	where a real		

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	a) Uiva	√b) Gonyaulax	c) Fuscus	d) Frequilaria		
.46	Marine algae are also sou			1		
	a) Algin	b) Agar	c) Carrageenan	✓d) All of these		
.47	Oomycotes are close relat	tives of the .				
	a) Algae	√b) Fungi	c) Protozoa	d) Bacteria		
48	Which one has played info 19th century?	amous roles in human his	tory as they were the cause of	Irish potato famine of th		
	a) Entomoeba histolytica	b) Physarum polycephalum	c) Trypanosoma gambiense	√d) Phytophthora infestans		
49	Plasmodium / slime mold		of cytoplasm that can grow in	NAME OF TAXABLE PARTY.		
43	a) 5 cm	b) 10 cm	c) 20 cm	100		
F0.	Cell walls of Oomycotes of	1	C) 20 Cili	√d) 30 cm		
50		b) Chitin	a) Beatifush was	d) Channe		
	√a) Cellulose		c) Peptidoglycan	d) Glycogen		
51	Fungus - like protists have	-	The second second second	796		
	a) Fibres	b) Yarns	√c) Hyphae	d) Twines		
.52	The plasmodial slime mol-	-	7 7 7 7			
	√a) Physarum polycephahum	b) Ustilago tritici	c) Phytophthora infestans	d) Frequilaria		
53	Oomycotes include a num	ber of pathogenic organis	ims , including .			
	a) Physarum polycephalum	b) Rhodotorula	√c) Phytophthora infestans	d) Candida albicans		
54	Parasitic fungi directly absorb nutrients from living host by .					
	√a) Haustoria	b) Roots	c) Rhizoids	d) Gametangia		
55	The cell wall of fungus contains .					
	a) Cellulose	√b) Chitin	c) Calcium carbonate	d) None of these		
56	Non-septate hyphae are called					
-	a) Monokaryotic	b) Dikaryotic	c) Mononucleatic	d) Coenocytic		
57	The body of a fungus ( exc	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	of monoracion	of cochacter		
	a) Thallus	The state of the s	√c) Mycelium	d) Prothallus		
58	The non - hyphal unicellul		V C) Wyceitum	a) Fromina		
.36	77	b) Morels	c) Truffles	d) Puffballs		
	√a) Yeasts			u) Punbalis		
59			ition , the process is called	d) It descrit		
	a) Biological control	√b) Bioremediation	c) Fungal culture	d) Hydroponic		
60	Lichens are very good	1		T n		
	a) Bioremediation	√b) Bioindicators	c) Both a & b	d) None of these		
61	Kindgdom plantae mainly develop from	includes eukaryotic , auto	otrophic , multicellullar , non π			
	a) Zygote	√b) Embryo	c) Seed	d) Nane of these		
62	The sporophyte of bryoph	ytes is .				
	a) Haploid	√b) Diploid	c) Triploid	d) Tetraploid		
63	Which plants are said to b		plant world ?			
	a) Angiosperms	√b) Bryophytes	c) Trachaeophytes	d) Spermatophytes		
64	Production of two types of					
	a) Homogamy	b) Heterogamy	c) Sporophyte	√d) Gametopmyte		

Al-Qadir Jinnah Science Academy Mallian Kalan Guess Paper Biology inter -I Which of the following is a modified leaf? d) Both b & c a) Tendril b) Thorn √c) Flower The process of evolution of leaf was completed in more than. 166 b) 15 - 19 million year c) 15 - 17 million year a) 15 - 16 million year √d) 15 - 20 million year Which of the following were the first plants that formed true leaves and roots? 167 d) Ferns a) Psilopsids √b) Lycopods c) Megaphylls When the forn in immature and young , it is coiled , this pattern of development is called . 168 a) Nutation b) Circum nutation d) Reticulate vernation √c) Circinate vernation Large leaves having divided veins and veinlets with an expanded leaf blade or lamina are known as . 169 d) Compound leaf a) Microphylls c) Frond √b) Megaphylls The leaves are called fronds in class. 170 d) Sphenopsida a) Angiospermae c) Gymnospermae √b) Filicineae 171 Sori are protected by the bent margin of the leaflet, forming false. d) Capsule √a) Indusium b) Stomium c) Annulus 172 The microspores produced inside mircroporangia germinated to form. a) Male gametophyte b) Microgametophyte c) Female gematophyte √d) Both a & b It is a dry , indehiscent fruit in which fruit wall is completely fused with seed coat . 173 a) Dryopsis b) Testa d) Legume √c) Caryopsis Development of protective layers around megasporangium is called . 174 d) None of these a) Microsporangium b) Embryo sac √c) integument The distal end of the megasporanglum became modified for capturing 175 a) Fruit b) Seed c) Zygote √d) Pollen 176 In this group animals with ...... symmetry have been included . √a) Radial b) Bilateral c) Both a & b d) None of these In grade radiate the animal is divide into two equal halves and are 177 d) None of these b) Opposite c) Right angle √a) Mirror image All the animals in grade radiate are 178 c) Tetrablastic d) Both a & b a) Triploblastic √b) Diploblastic Water is more viscous than air. 179 a) 10 times b) 20 times d) 100 times √c) 50 times The exchange of gases ( CO2 and O2 ) between the organism and its environment is called . 180 b) Cellular respiration c) External respiration d) Anaerobic respiration √a) Respiration Oxygen contents of fresh air are . 181 b) 100 ml / litre d) 150 ml / litre c) 10 ml / litre √a) 200 ml / litre During photorespiration, glycine in converted into serine in the. 182 √a) Mitochondria b) Ribosome c) Golgi Bodies d) Chloroplast 183 During photorespiration, glycolate diffuses into the membrane bounded organelle named as . a) Mitochondria b) Ribosome d) Golgi Bodies √c) Peroxisome The main sites of exchange of gases in plants are . 184 b) Lenticel c) Cuticle d) Epidermis √a) Stomata Respiration activity which occurs in plants during day time is called 185 d) None of these. a) Respiration √b) Photorespiration c) Digestion In the mitochondria where two glycine molecules are converted into 186

	a) Glycine	√b) Serine	c) ATP	d) Glycolate	
187	Guard cells become turgio	and stoma or pore			
	a) Close	√b) Open	c) Both a & b	d) Nane of these	
186	is incorrect about guard co	ells .			
	a) Have chloroplasts	✓b) Connected to surrounding cells by plasmodesmata	c) Surrounding stoma	d) Bean shaped	
189	According to one hypothe	sis , stomata opens due to	the active transport of .		
	a) Sodium	√b) Potassium	c) Sulphur	d) Nitrogen	
190	A circulatory fluid is the				
	√a) Blood	b) Water	c) Secretion	d) Hormones	
191	A contractile pumping dev	vice .			
	a) Lung	b) Liver	√c) Heart	d) Vein	
192	Normal pH of human bloc	! '	4 chiledir		
	a) 4.4	b) 5 4	c) 6 4	√d) 7.4	
193	<u>'</u>	not true about histamine ?		A mi s.a	
	a) Produced by basophil s		c) Cause Inflammation	✓d) Released by Eosinophils	
194	Platelets are fragments of		14 12 10	Cosmophiis	
734	a) Microkaryoctyes	b) Erythrocytes	* (a) Manaphania das	d) Leucocytes	
195		uman male blood contain f	√c) Megakaryocytes	of ceacocytes	
133	a) 4 - 4 5 millions		c) 6 - 6.5 millions	d) 7 - 7 5 millions	
100	<u> </u>	√b) 5 5.5 m lions		d/7 - 7 5 minuons	
196		titute percent by weight of		[ _1149 40 A	
	√a)7-9%	b)9-11%	c) 11 - 13 %	d) 13 - 15 %	
197	Histamine is produced by			45.0.0	
	a) Neutrphils	b) Eosinoophils	√c) Basophils	d) Moncytes	
198	Thalassaemia is also called				
	✓a) Cooley's anaem a	b) Thomas anaemia	c) Pete's anaemia	d) Mend 's anaemia	
199	Enlargement of spieen is seen in .				
	a) Blood cancer	b) Tha assaemia	r) Odema	✓d) Hepatitis	
200	The substance which inhib	olts blood clotting.			
	√a) Heparin	b) Histamine	c) Fibr n	d) A bum-n	
201	The helps defend the	e body again foregind invac	ders .		
	a) Circulatory system	√b) Lymphatic system	c) Heart	d) None of these	
202	Antibodies are produced (	from .			
	a) Eosinph Is	b) Basophils	c) Monocytes	√d) Lymphocytes	
203	Antiserum is a serum cont	taining .			
	√a) Antibodies	b) Antigen	c) Antibiotics	d) Anticancer chemicals	
204	In cell mediated response				
	a) B - ce ls	√b) T cells	c) Lymphs	d) None of these	
205	<u> </u>		a protein which stimulates	the formation of	
	√a) Antibodies	b) Antiseptic	c) Both a & b	d) None of these	
206	<del></del>		antibodies in the body, and	-	
	a) Antibodies	√b) Vaccines	c) Antigen	d) None of these	

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207	Naturally induced immun	ity is also called					
	√a) Auto mmune	b) Anti serum	c) Passive immunity	d) None of these			
208	Curved or comma shaped	bacteria are called .					
	√a) Vibr o	b) Spirilum	c) Spirochetes	d) Bacidi			
209	When cocci occur in pairs	, their arrangement is .	Example of rod shaped bacter	ia is .			
	a) Sp rocheta	b) H microbium	c) S.Aureus	√d) Escherichia coli			
210	When cocci form long cha	in of cells then arrangem	ent is called as .				
	a) Tetrad	b) Diplococcus	c) Sarcina	√d) Streptococci			
211	A tetrad is a square of .						
	a) 2 Cocci	√b) 4 Cocci	r) 6 Cocci	d) 8 Cocci			
212	When the division is in th	ree planes , it will produc	ea.				
	√a) Sarcina arrangement	b) Tetrad arrangement	c) Bivalent arrangement	d) Helical arrangement			
213	When division occurred is	random planes it will pro	oduce a — arrangement.				
	√a) Staphylococcus	b) Diplococcus	c) Streptococcus	d) Bacillococcus			
214	If tuft of flagella is presen	t only at one pole of bact	eria then these are called as .				
	a) Monotrichous	b) Peritrichous	c) Amphitrichous	√d) Lophotrichous			
215	Bacterial pathogenicity is	due to .					
	a) Enve ope of all cell	b) Capsule	√c) SI-me	d) Ce I wall			
216	important vector in mode	ern genetic .					
	a) Nucleoid	√b) Plasmid	c) Mesosome	d) Ribosome			
217	Cysts are dormant , thick - walled , desiccation resistant forms and develop during						
	a) Late stage of ce.l	b) Differentiation of	✓c) Differentiation of	d) During conjugation			
	growth	reproductive cells	vegetative ceils				
218	When tuft of flagella is pr	When tuft of flagella is present at each of two poles in bacteria is known as .					
	a) Artichous	b) Lopthorichous	c) Per trichous	√d) Amph trichous			
219	Mesosomes are internal of	extensions of .					
	a) Ce I wal	b) Golgi complex	√c) Cell memebrane	d) Endoplasmic reticulum			
220	Cell wall is absent in .						
	a) E Coli	√b) Mycoplasma	c) Vibrio	d) Spriochete			
221	Pill are made up of specia	l protein called .					
	√a) Pillin	b) Flagelliri	c) Tubulin	d) Myosin			
222	Bacteria without any flag	ella are called					
	a) Amphitrichous	b) Monotrichous	c) Lophotrichous	√d) Atrichous			
223	Cell wall of gram positive	bacteria are stained .	•				
	a) Pink	b) Red	c) Green	√d) Purple			
224	Which one is present is al	l bacteria ?					
	✓a) Cell membrane	b) Mesosome	c) Ribosomes	d) Prasmid			
225	Primary function of flagel	la is to help in .					
	a) Induction	√b) Motility	c) Conjugation	d) Adhesion			
226	Hollow , nonhelical , filan	<u> </u>	ent in bacteria are .				
	a) Cilia	b) Fimbrie	c) Flagella	✓d) Pili			
227	Slime provides greater pa	thogenicity to bacteria ar	nd protects them against .				
	a) Pinocytosis	√b) Phagocytosis	c) Invasion	d) Exocytosis			
228	The cell walls of most bac		omolecule called .				

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	a) Teichoic acid	b) Lipoprotein	√c) Peptidoglycan	d) Po ysaccharide		
229	Spores are resistant to a	dverse physical environme	nt condition such as .			
	a) High temperature	b) Desiccation	c) Chemical agents	✓d) Al. of these		
230	Dormant , thick-walled ,	desiccation resistant form	s present inside bacteria are .			
	√a) Cysts	b) Exospores	c) Endospores	d) Mesosome		
231	Bacteria that cannot syr	thesize their organic comp	ounds from simple inorganic s	ubstances are .		
	a) Autotrophs	√b) Heterotrophs	c) Symbionts	d) Lichen		
232	Chemosynthetic bacteri	a oxidize inorganic compou	inds like .			
	a) Ammonia	b) Nitrogen	c) Sulphur	√d) All of these		
233	Bacteria which get their	food from dead organic ma	atter are .			
	a) Paras tic	√b) Saprophytic	c) Symbiotic	d, Chemosynthetic		
234	Which one is a microaer					
	a) E co l	b) Spirochete	c) Pseudomonas	√d) Camphylobacter		
235	Which of the following i	s anaerobic bacteria ?	7.75			
	a) Pseudomonas	b) Escherichia coli	√c) Sorrochete	d) Campylobacter		
236	Asexual reproduction in	bacteria occurs by .				
	a) Conjugation	b) Transduction	c) Transformation	√d) Binary Fission		
237	Bacteria divided at expo					
	a) Stationary phase	b) Decline phase	√c) Log phase	d) Log phase		
238	Which is an aerobic bacterium?					
	a) E co i	b) Spirochete	c) Campylobacter	√d) Pseudomonas		
239	The interval of time until the completion of next division is known as .					
	a) Incubation time	√b) Generation time	c) Multiplication time	d) Ce l cycle		
240	, ·	agulation of proteins and ki	man.	.,,		
_ ``_	√a) Moist heat	b) Dry heat	c) Intense heat	d) Mild heat		
241			ents of microbes and kills the			
	a) Moist heat	√b) Dry heat	c) Intense heat	d) Mild heat		
242	Membrane filters are used to sterilize heat sensitive compounds like					
	a) Ant biotics	T b) Seras	c) Hormones	√d) Al of these		
243		growth of vegetative cell a	<u> </u>	4 dy no or tricac		
- 10	a) Living materials	b) Living and non living	✓c) Non living materials	d) Living tissues		
	_,	materials	4 c) Holl Hall & Haterials	-,		
244	Methods of prevention	and treatment that have be	een introduced to control micr	obial diseases included.		
	a) Immunization	b) Antisepsis	c) Chemotherapy	√d) Al of these		
245	The rays generally used	for sterilization process are	1.			
	a) Alpha	b) Beta	√c) Gamma	d) X-rays		
246	Antibiotics are synthesis	red and secreted by certain	bacteria , actinomycetes and			
	a) A.gae	√b) Fungi	c) Lichen	d) Virus		
247	2.0	h as penicillin can cause .		1		
	√a) Aliergic reactions	b) Headache	c) Deafness	d) Mental retardness		
248			used in treatment of Infectiou			
	a) Ant bod es	b) Antigens	√c) Antibiotics	d) Disinfectants		
249	Lovastain is used for lov		- wy restriction	,		
_ ,_	a) Pressure	b) Glucose	√c) Cholesterol	d) Neraspora		

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250	a) Psychotic Delusion	b) Convuls on	c) Gangrene	/ 4U to disease an		
204	Which is used to inhibit		c/ Galigiene	√d) Indigestion		
251	a) Lovastain	b) Cyclosponn	c) Griseofulvin	d) Ergotin		
252	· ·		in persons with defective im			
252	a) HAV	b) Hepatitis	c) HIV	1		
253	Citric acid is obtained fro	1 ' '	c) niv	✓d) AIDS		
255	a) Penicilium		c) Sacchromyces	d) Nevrospora		
754	Which one is an example	√b) Aspergellus	c) saccinomyces	d) Mevrospora		
254	a) Ramakra	b) Bacidia	r) Lecanora	(4) 0		
355	,			√d) Permena		
255		rtant as bioindicators of al		1.11.500		
	√a) luchens	b) Mycomhizae	c) Yeast	d) Viruses		
256	Which one is not animal	. *	414	1 -12 242-41		
	a) Ringworm	b) Athletes foot	√c) Powdery mildew	d) Histoplasmosis		
257	Which one is not plant d		-) (	44		
	a) Potato wilt	b) Powdery mildew	c) Ergot of rye	√d) Histoplasmosis		
258		st , causes oral and vaginal		the second second		
	a) Candid as s	b) Candidosis	√c) Both a & b	d) None of these		
259		s not an example of poisor				
	a) Death cap / death angel	b) Jack - O ' lantern mushroom	c) Amanita	√d) Agaricus		
260	Reindeer moss is .					
	a) Mycorrhiza	√b) Lichen	c) Funaria	d) A ga		
261	Ginkgo belongs to class.	27 27				
	a) Ang ospermae	b) Filicinease	√c) Gymnospermae	d) Anthoceropsida		
262	The term gymnosperma	e literally means .				
	a) Enc osed seeded	√b) Naked seeded	c) Open seeded	d) Seedless		
263	The megaporophylls bea	ring ovules are not folded	and joined at the margins to	form an ovary in .		
	a) Filic neae	b) Dicotyledonae	c) Monocotyledonae	√d) Gymnospermae		
264	The megasporophylis be	aring ovules are not folder	d and joined at the margins t	o form an		
	a) Ovule	b) Seed	√c) Ovary	d) Fruit		
265	In angiosperm , megaspe	ore develop into female ge	metophyte which consist of			
	a) 3 Cells	b) 5 Cells	√c) 7 Cells	d) 9 Cells		
266	and and the and a stabilist - And Builted was the field a william and	make up 235,000 of the 36	50,000 known species of plan	its .		
	✓a) Ang osperms	b) Gymnosperms	c) Ferns	d) Bryophytes		
267	Female gametophyte in	flowering plants is .	1			
	a) Ovary	b) Archegonium	√c) Seed	d) Embryo sac		
<b>268</b>	An ovule is an integume		4 4, 5224	1		
	a) Microporangium	√b) Megasporangium	c) Sporangium	d) Seed		
269		the completion of next di		-, -, -, -,		
269	a) Interphase	√b) Generation time	c) Reproductive time	d) Growth		
	and the best put that all the	A p) deneration rune	at the business and annea	G G G G G G G G G G G G G G G G G G G		
270		develops into fruit is				
270	The part of flower which	develops into fruit is . b) Seed	c) Ovule wall	√d) Ovary		

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	√a) Fruit	b) Vegetable	c) Seed coats	d) Pericarp
272	Double fertilization is a	characteristic of		
	a) Gymnosperms	√b) Angiosperms	c) Bryophytes	d) Mosses
273	Which one of the follow	ing is the characteristics of m	nonocots ?	
	a) 4 or 5 petals	✓b) Scattered vascular bundles in stem	c) Netted veins	d) Woody stems
274	The class Angiospermae	is divided into two sub - clas	ises according to the num	ber of cotyledons in the
	a) Zygote	b) Seed	√c) Embryo	d) None of these
275	Nonocot have			
	√a) Paral e	b) Net	r) Both a & b	d) None of these
276	The asexual reproductio	n is sponges occurs by .		1
	√a) Budding	b) Fragmentation	r) Spores	d) Condia
277	The poriferans are pore	- bearing animals, commont	y called .	
	a) Nematodes	b) Cnidarians	√c) Sponges	d) Roundworms
278	In most sponges this spo	ongocoel may be divided into		anals, lined by flagellated
	√a) Choanocytes	b) Pinacocytes	c) Amoebocytes	d) Phagocytes
279	The polyp is reduced and	d medusa is dominant .		
	a) Sea Anemon	b) Hydra	√c) Je ly f sh	d) Obe ia
280	Sea anemone belongs to	phylum .		,
	√a) Coelentrata	b) Annelida	c) Arthropoda	d) Echoniodermate
281	Coral reefs are mostly fo	: '		.,
	√a) Ca cium carbonate	b) Silica Cs. C 1	c) Chitin	d} Lignin
282	<u> </u>	lobin contains an atom of .	1 -,	į -, -, -, -, -, -, -, -, -, -, -, -, -,
	a) Magnesium Mg++	b) Phosphorus K++	c) Calcium Ca++	√d) Iron Fe++
283	Which metal atom is pre		-,	* 4) (100) (2.1)
203	a) Cu	b) Fe	√c) Mg	d) K
284	Chlorophyll a is .	ayre, a	A C) IAIR	al u
204	a) Yellow green	√b) Blue green	c) Orange green	d) Yellow green dark
285		ita for chlorophyll " a " is .	c) orange green	Of LEWDAY B. E.E.I. MOLK
203		b) C55H72O4N5Mg	r) C55H70O5N4Mg	d) C55H70O5N5Mg
106	√a) C55H72OSN4Mg	mainly absorbed by chloroph		a) Coortoo yasaa
286	√a) V olet blue and	b) Violet and orange	c) Green and blue	d) Red and ind go
287	Magnesium is an import	ant nutrient in green plants:	es it is an essential compo	pont of
401	a) Prote n	b) Chlorophyll	c) Hemoglobin	
200	The colour of chlorophyl		c) Heliogropiii	✓d) G ucose
288	a) Orange red		c) Blue green	d) Orange - green
200		√b) Yellow - green		d/ Change - green
289	a) 670 nm	orm of chlorophyll a which a		J1 700
		√b) 680 nm	c) 690 nm	d) 700 nm
290		nthetic light reactions are .	1440	1) 499 (4.45
	a) ATP and NADH	√b) ATP , NADPH and O2	t) ATP and NADPH	d) ATP and NAD
291	Light can work in photos	<u> </u>		
	✓a) Absorbed	b) Reflected	c) Transmitted	d) Refracted
292	Plastocyanin protein cor	ntains .		

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	a) Iron	√b) Copper	c) Magnessium	d) Potassium					
293	Water splitting process of photosynthesis releasing oxygen is called .								
	a) Glycolysis	✓b) Photolysis	c) Hydrolysis	d) Electrolysis					
294	Which of the following is		,						
	a) P astocyanin	b) Cytochromes	c) Plastoquinone	✓d) Al: of these					
295	An enzyme NADP reduct	tase transfers electrons from							
	√a) Fd to NADP	b) NADP to Fd	c) Fd to NADPH	d) Fd to ADP					
296	Each photon of light exc	ites							
	a) Many electrons	b) 3 electrons	c) 2 electrons	✓d) Single electrons					
297	What is not produced du	uring cyclic electron flow?							
	a) Oxygen	b) ATP	c) NADPH	√d) Both a & c					
298	Sugar is formed during .								
	a) Dark independent reactions	b) Dark dependent reactions	√c) Light independent reactions	d) Light dependent reactions					
299	The dark reaction consis	1	1 ESCLIONS	1,000,00					
233	a) Carbon fixation	b) Reduction	c) Regeneration	√d) Al of these					
300		is of photosynthesis the main		A (1) M. O. (1)626					
300	a) Re ease of oxygen	b) Energy absorption	c) Formation of ATP	7.45 A.4.4					
	a/ he ease or oxygen	u) Eriergy absorption	CITOTRIACIONOLATE	√d) Adding of hydroger to carbon dioxide					
301	For fixing of three molecules of CO2 in Clavin cycle , what is needed?								
	a) 6 ATP + 9 NADPH	<b>√</b> b) 9 ATP + 6 NADPH	c) 18 ATP + 9 NADPH	d) 3 ATP + 3 NADPH					
302	The NADPH molecule will produce reducing power for the sugar in the .								
	a) Chem osmosis	b) Cyclic phosphorylation	√c) Calvin cycle	d) Electron transport chain					
303	For the synthesis of one	molecule of glucose Calvin cy	cle operate how many tim	es ?					
	a) Once	√b) Twice	c) Thrice	d) Four times					
304	Which of the following is a parasitic plant ?								
	a) Drosera	b) Dionea	√c) Cuscuta	d) Sarracenia					
305	Lichen is a symblotic relationship between an alga and .								
	a) Gymnosperm	b) Ptendophyte	√c) Fungus	d) Angiosperm roots					
306	Root nodules are presen		2 0,1 01.602	, , , ,					
	a) A I photosynthetic	b) Gymnosperms	c) Non - leguminous	✓d) Legum nous planst					
	plants	[ -, -, -, -, -, -, -, -, -, -, -, -, -,	plants	v a/ acgain meas p and					
307	All of the insectivorous	plants are .		1.					
	a) Heterotrophs	√b) Autotrophs	c) Saprotrophs	d) Parasitic					
308	One of the following is r	ot insectivorous plant .							
	a) Venus - fly trap	√b) Cuscuta	c) Sundew	d) Pitcher plant					
			1 *	ures of these pases					
309	of oxygen in and carbon	dioxide out occurs because o	the state of the property of the state of th	tenes at ellese Pases:					
309	of oxygen in and carbon	b) Effusion							
	of oxygen in and carbon √a) Diffusion	b) Effusion	c) Digestion	d) None of these					
309	of oxygen in and carbon  ✓a) Diffusion  Blood in the lungs is sep	b) Effusion arated from the alveolar air b	c) Digestion by extremely thin membran	d) None of these les of the and alveoli					
	of oxygen in and carbon √a) Diffusion	b) Effusion arated from the alveolar air b b) Bronchi	c) Digestion	d) None of these					

312	The maximum amount of blood	of oxygen which normal hi	uman blood absorbs and carrie	es at the sea - level is abo					
	√a) 200 ml / 100 ml	b) 40 ml / 100 ml	c) 100 ml / 20 ml	d) None of these					
242		falls below —— mercury	, as in many cells and tissues ,	the oxygen saturation of					
313	haemoglobin decreases	very sharply .	·						
	√a) 60 mm	b) 40 mm	c) 20 mm	d) None of these					
314	When carbon dioxide p	ressure increases , the oxy	gen tension						
	a) Increase	√b) Decrease	c) Both a & b	d) None of these					
315	Increased carbon dioxide tension favours the greater liberation of from the blood to the tissue.								
	√a) Oxygen	b) Sulphur	t) Carbon mono oxicde	d) None of these					
316	Carboxyhaemoglobin is	formed when carbon diox	ide combines with of ha	emoglobin .					
	a) Oxygen	b) Amino group	c) Easter group	d) None of these					
317	Aboutcarbon	dioxide is carried as bicarb	onate ion combined with sodi	um in the plasma .					
	a) 80 %	√b) 70 %	c) 20 %	] d) 50 %					
318	Carbon dioxide per 100	ml of venous blood is .							
	a) 50 ml	√b) 54 ml	c) 98 ml	d) 99 ml					
319	4 ml of carbon dioxide	per 100 ml of blood as it pa	isses through the						
	√a) Lungs	b) Liver	c) Kidney	d) None of these					
320	Asthma is associated w	ith severe paroxysm of diff	ficult	`					
	a) Sleeping	b) Spreading	c) Walking	d) Breathing					
321	Respiratory distress syn	drome is common in .							
	a) A I new borns	b) Abults	√c) Premature Infants	d) Old age people					
322	Smoking especially in ye	oung adults is the most po							
	√a) Lung cancer	b) Throat cancer	c) Kidney cancer	d) None of these					
323	Tuberculoris is caused b	W .							
	✓a) Mycobacterium tuberculosis	b) Smoking	c) Streptococcus	d) None of these					
324	How many molecules of	f oxygen can bind with a m	nolecule of myoglobin .						
	√a)01 × 4	b) 02 } P	c) 03	d) 04					
325		n as haemogle	obin .						
	a) Liver	b) Heart	√c) Musc≀e	d) None of these					
326	The volume of air taken	inside the lungs and expe	lled during exercise is about						
	a) 1.5	b) 2 S	√c)35	d) 4 5					
327	The amount of Carbon	dioxide present in air is ab							
	a) 0 01 to 0 02 %	b) 0 03 to 0 04 %	√c) 0.04 to 4 %	d) 0.05 to 0.07 %					
328	At rest we inhale and en	khale per munute .	1						
	a) 15 - 25 times	√b) 15 - 20 times	c) 10 - 15 times	d) 11 - 20 times					
329	The light falling on leaf	surface is absorbed about							
	√a)1%	b) 25 %	c) 50 %	d} 100 %					
330	The shrinkage of protop		,	*					
230	a) Incip ent plasmo ysis	b) Deplasmolysis	c) Guttation	√d) Plasmotysis					
331	1 1	, , , ,	e with each other through .	A m' . Ingi.in.kaia					
	a) Sieve pores	b) Caspanan strip	√c) Plasmodesmata	d) Ce I membranes					
332		of roots of prosopis is .	* w/ Flushioneshinde						

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	a) 40 meters	√b) 50 meters	c) 60 meters	d) 70 meters			
333	Path way of consulting interconnected protoplasts in roots cells is called.						
	a) Apopiast	√b) Symplast	c) Tonoplast	d) Protoplast			
334	Roots bear a dense cluster of tiny hair like structures which are extensions of .						
	√a) Ep derma ce ls	b) Pericycle cells	c) Endodermal celis	d) Cort cal cells			
335	Apoplast pathway becomes discontinous in endodermis due to .						
	a) Pertcycle	√b) Casparian strip	c) Cortex	d) Xyiem			
336	They theory called , pressure - Flow Theory , is the most acceptable theory for the transport in the phloem of						
	a) Gymnosperm	√b) Angiosperms	t) Bryophytes	d) None of these			
337	Water moves out of sie		ering the hydrostatic pressu	re.			
	a) Diffusion	b) Effusion	√c) Osmosis	d) None of these			

### Subjective Q.NO.2 (Ch=2,3,8,10,11)

	Most Important Questions	Ch	<del>۲</del>	Most Important Questions	Ch
1	What is heat capacity of water ? Give its importance	2	2	Define enzymes.	3
3,	Define protective role of water	2	4.	Give role and examples of enzymes activator	3
۹,	D fferentiate between Amylose and Amylopectin.	2	6.	Define cofactor with example	3
7,	Different ate between g woosidic and peptide bond	2	8.	Differentiate between Co-factor and Co-enzyme	3
9.	What are or gosacchar des?	2	10.	How is Prosthetic group different from Co- enzyme <sup>9</sup>	3
- 11	What are pids? Give two to es of waxes	2	12	Different ate between co-factor and activator	3
13.	What are waxes?	2	14.	What is difference between pepsin and pepsinogen?	3
15.	Give general formula for an Annno Acid	2	16.	Gave any two characteristics of enzymes	3
17.	What are Globular proteins? Give examples	2	18.	Define lock and key model of enzyme	3
19.	D fferentiate between Nucleoside and Nucleotide	2	20.	Differentiate between reversible and irreversible enzyme inhibitors.	3
21	What is phosphodiesternkage? Skeich.	2	22.	What are competitive and non-competitive enzyme inhibitors?	3
	Most Important Questions	Ch		Most Important Questions	Ch
23.	Enlist toar plan, atseases caused by fugi	8	24.	What are tichens? Write about their ecological role	8
25.	D fferent ate between ob, gate and facultative parasite	8	26.	Define Lebens, Give 15 significance	8
27.	Name the type and hyphae and sexual spores in sec- fungi	8	28.	Differentiate between plasmogamy and karyogamy	8
29.	Write down two similarities between plans and fungi	8	30.	What are separate and non-septate hyphae?	8
31.	What are camivorous fugi <sup>3</sup>	8	32.	What do you know about busing and parasexuality?	8
33.	Write four important points of algae.	8	34.	What are comdia and spores?	8
35.	D fferent are between fungus like protists and fugi.	8	36.	What is meant by parasexuality? Give its importance	8
		8	38.	18 Differentiate between conidiophores and	8
	8- What is histoplasmosis*	0		coenocytic hypha	
	9. Why rust and smut are called so?	8	40.	19. Differentiate between ascus and basidium	8

	Most Important Questions Ch Most Important Questions							
	Most Important Questions		Ch Most Important Questions					
43,	What is hermaphrodite organism?	16	44. Name four harmful effects of insects.	10				
45.	Write basic characteristics of chordates, give example.	10	46. Give three basic characteristics of phylum chordate	10				
47.	What are corel reefs?	10	48. What is polymorphism? Give example,	10				
49.	Define swim bladder, Give its functions.	10	<ol> <li>Differentate between sac like and tube like digestive system.</li> </ol>	10				
51,	What is regeneration? Give example.	10	52. What is metamorphosis?	10				
53.	What are diploblastic animals?	10	54. Differentiate between parazoa and cumetazoa.	10				
55.	Define placenta, Write its functions.	10	56. What are archaeopteryx?give its two characteristics.	10				
57.	Write the two differences between protostomes and deuterostomes.	10	58. Differentiate between polyps and medusases.	10				
59.	Differentiate between gastropods and cephalopods.	10	60. Differentiate between diploblastic and triploblastic organism.	10				
61.	What is regeneration, give its importance.	10	62. Write down affinities of echinoderm with hemichordales.	10				
	Most Important Questions	Ch	Most Important Questions	Ch				
63,	Give the importance of ATP.	11	64. What are accessory pigments? Give their one importance	11				
65.	Define the term Bioenergetics.	11	66. What is fermentation? Give its two types.	11				
67.	What is glycolysis? Where it takes place in cell?	11	68. Differentiate between antenna complex and reaction center	11				
69.	How action spectra can be obtained?	11	70. Give the function spectrophotometer.	11				
71.	What is cellular respiration?	11	72. Define glycolysis. Where does it take place?	11				
73.	What is payoff phase of glycolysis?	11	74. Write the photolysis of water in photosynthesis.	11				
75.	How does carbon dioxide absorb by cell wall of mesophyll cells?	11	76. What is Z-scheme of photosynthesis?	11				
77.	Define photosynthesis with equation.	11	<ol> <li>Differentiate between photophosphorylation and oxidative photophosphorylation.</li> </ol>	11				
79.	What do you mean by action spectrum.	11	80. Define alcoholic fermentation. Write its equation.	11				

#### Q.NO.3 (Ch=1,4,7,9,14)

Most Important Questions	Ch	Most Important Questions	Ch
1. What is biome?	1	2. Write down sabent features of cell theory.	4
3. What is hydroponic culture technique?	1	4. What is endosytosis?	4
5. Differentiate between deductive and inductive reasoning.	1	What is endocytosis? Differentiate betwenn phagocytosis and pinocytosis.	4
7. Differentiate between micro and macromolecules?	1	8. Define differentially permeable membrane.	4
9. What is biome?	1	10. What are storage diseases? Give an example.	4
11. Write the name of four eras of geological times.	1	12. Give the important functions of cytoplasm.	4
13. What is pylatic lineage?	1	14. What is chromoplast? Give its functions.	4
15. Define theory. Give important features of a god theory.	1	16. Give the chemical composition of primary and secondary cell wall.	4
17. Define population, give its one example.	1	18. What are microfilaments? Give their functions.	4
19. What is deductive reasoning? Give one example.		20. Define fluid mosaic model of cell membrane.	4
21. Define parasitology.	1	22. Write down two functions of golgi apparatus.	4
23. Differentiate between anatomy and morphology.	1	24. Give the function of endoplasmic reticulum.	4
25. Define ecosystem with an example.	1	26. Define autophagosome.	4
27. Differentiate between gene therapy and chemotherapy.	1	28. What is resolution of human eye and electron microscope?	4
Most Important Questions	Ch	Most Important Questions	Ch

29. What is sleeping sickness?	7	30. Differentiate between ovule and seed.	9
31, Write down functions and micro and macro nuceli in ciliates.	7	32. Why bryophytes are called amphibious plants?	9
<ol> <li>Write down four characteristics and green algae similar to plans.</li> </ol>	7	34. Differentiate between microphyll and megaphyll.	9
35. Write down two diffenreces between fungi and oomycotes.	7	36. Define double fertilization.	9
37. What are cheanoflagellates?	7	38. Write down two steps involved in evolution of seed.	9
39. What are protists? How are they different from animals and plants?	7	40. Describe adaptation of bryophytes to land habitat.	9
41. What are trichonymphas?	7	42. Write two advanced characteristics of anthoceropsida sporophyte.	9
43. How algae differ from plants?	7	44. What are gymnosperms? Give an example.	9
45. Write down two characteristics of ciliates.	7	46. Differentiate between bryophytes and tracheophytes.	9
47. How ciliates are different from other protozoans?	7	48. Define cercinate vernation.	9
49. Write down two characteristics of apicomplexans.	7	50. Define ovule and embryo sac.	9
51. What is chlorella? Give its importance.	7	52. What are fronds?	9
53. Write down two characteristic of dinoflagellates.	7	54. Write botanical name of two plants belong to family solanacese.	9
55. Write four important features of algae.	7	56. Differentiate between microgametophyte and megagametophyte.	9
57. How do flagellates get food?	7	32 30	
Most Important Questions	Ch	Most Important Questions	Ch
58. What is guttation?	14	<ol> <li>Differentiate between single and double circuit heart.</li> </ol>	14
60. Define immunity.	14	61. What is humoral immune response.	14
62. Differentiate between active and passive immunity.	14	63. Differentiate between thrombus and embolus.	14
64. Differentiate between plasmolysis and deplasmolysis.	14	65. Describe CO <sub>2</sub> concentration in artery and venous blood.	14
66. What is single circuit heart? Give an example.	14	67. What is imbibition?	14
68. Differentiate between apoplast and symplast pathway.	14	69. What is honey dew? Give its composition.	14
70. What is pressure potential?	14	<ol> <li>What are factors affecting capacity of hemoglobin to combine with oxygen.</li> </ol>	14
72. What are blue babies?	14	73. What do you know about bleeding in plants?	14
74. What is pressure flow theory? Who proposed it?	14	75. What is cell-mediated and humoral immune response?	14

Q.NO.4 (Ch=5,6,12,13)

Most Important Questions	Ch	Most Important Questions	Ch
1. Write down four characteristics of viruses.	5	2. Define species and virology.	5
3. What are pocks?	5	4. What are prions?	5
<ol><li>Write four names of viral diseases common in human beings.</li></ol>	5	Define binomial nomenclature. Give an example.	5
7. What are symptoms of small pox?	5	Differentiate between procariotique and eucariotique.	5
<ol> <li>Sketch and label diagram of bacteriophage.</li> </ol>	5	<ol> <li>Write down five postulates of germ theory of disease by Robert Koch.</li> </ol>	5
<ol> <li>Differentiate between gram positive and gram negative bacteria.</li> </ol>	6	12. Name three general shapes of bacteria and explain only one.	6
13. Write down misuses of antibiotics.	6	14. Differentiate between tetrad and sarcina.	6

15. What are pilli? Give their functions.	6	<ol> <li>Differentiate between lophotrichous and amphitrichous.</li> </ol>	6
Differentiate between streptococcus and staphylococcus bacteria.	6	18. Differentiate between amphitrichous and peritrichous bacteria.	6
Most Important Questions	Ch	Most Important Questions	Ch
19, What is rubisco? Give its functions.	13	20. What is respiratory distress syndrome?	13
21. What are spiracles? Give their functions.	13	22. What is diving reflex?	13
23. How air is belter medium for respiration than water.	13	24. What is lungs cancer?	13
25. What is asthma? Give its cause.	13	26. Why oxygen can be easily obtained from air as compared to water?	13
27. Write different ways of respiration in frog.	13	28. How does respiration take place in earthworm?	13
29. What is larynx or voice box?	13	30. What are alveoli? Give their dunctions.	13
31. What is diaphragm? In which group of animals it is found?	13	32. Give the composition of breath air in humans.	13
33. Differentiate between bronchi and bronshioles.	13	<ol> <li>Give two properties of respiratory surfaces in animals.</li> </ol>	13
35. What is emphysema?	13	36. What is photorespiration?	13
37. Write two properties of respiratory surfaces.	13	38. Differentiate between pulmonary and cutaneous respiration.	13
39. What is chlorosis and what is their cause?	12	40. Write only two functions of oral cavity.	12
41. What are the main reason of chlorosis in plants?	12	42. Define peristalsis.	12
43. Discuss parasitic nutrition in plants.	12	44. What is the advantages of a digestivetract as compared with a digestive cavity?	12
45. What are root nodules? Give their role.	12	46. Differentiate between chyme and bolus.	12
47. What is detritus feeding? Give examples.	12	48. Describe the role of trypsin in digestion.	12
49. What is filter feeding?	12	50. Give two functions of human liver.	12
51. What are fluid feeders? Give example.	12	52. What is bile? Give its functions.	12
<ol> <li>Differentiate between facultative and obligate parasite.</li> </ol>	12	54. Define Villi? write down functions of Villi.	12
55. Define gastrovascular cavity with example.	12	56. Give the role of large intestine of human.	12
<ol> <li>Define sac like digestive system and tube like digestive system regarding their efficiency.</li> </ol>	12	58. What is Dyspepsia?	12
59. Differentiate between Herbivores and Carnivores.	12	60. How adipose tissue is formed?	12
61. Differentiate between ingestion and Egestion.	12	<ol> <li>Write down causes and treatment of anorexia nervosa.</li> </ol>	12
63. Differentiate between detritivores and omnivores.	12	64. What is ulcer?	12
65. Differentiate between absorption and assimilation	12	66. Write only two functions of oral cavity.	12

#### **LONG QUESTIONS**

		Questio	n No	0. 5
1	(a)	How study of Biology helped mankind to improve production of food?	(b)	Soil water moves and reaches xylem tissues by various pathways, explain.
2	(a)	What is the role of study of Biology in the welfare of mankind in the field of protection and conservation of environment?	(b)	Discuss two main types of immunity.

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3	(a)	Give various components and functions of Lymphatic System.	(b)	Discuss transpiration as a necessary evil.
		Questio	n No	0. 6
1	(a)	Explain mutualistic nutrition in fungi.	(b)	Describe biological properties and importance of water.
2	(a)	Describe asexual reproduction in fungi.	(b)	What are polysaccharides? Describe different types and give examples.
3	(a)	Explain various economic gains and losses due to fungi.	(b)	Write the Watson and Crick model of DNA.
		Questio	n Ne	0. 7
1	(a)	Explain about use and misuse of antibiotics.	(b)	Describe the different adaptive characters for terrestrial environment in bryophyte
2	(a)	Discuss nutrition in bacteria.	(b)	Discuss evolution of megaphyll leaf.
3	(a)	Describe habitat, structure and reproduction in nostoc.	(b)	Describe prothallus of adiantum and What is alternation of generation? Give its significance
		Questio	n Ne	0. 8
1	(a)	Describe some viral diseases, which are common in Pakistan.	(b)	What is photo phosphotylation? Explain non-cyclic photo phosphorylation.
2	(a)	What is hepatitis? Give its symptoms and discuss its three common types.	(b)	Give in detail the phases of Calvin cycle.
3	(a)	Describe lytic cycle of bacteriophage (with diagram).	(b)	Sketch Krebs Cycle, (no description).
		Questio	n No	0. 9
1	(a)	Discuss structure and functions of endoplasmic reticulum.	(b)	Give the role of large and small intestine in human beings.
2	(a)	What are plastids? Explain the structure and function of chloroplast. Draw figure.	(b)	Describe digestion in hydra.
3	(a)	What are lysosomes? Explain their phagocytic role with the help of diagram.	(b)	Discuss the process of nutrition in insectivorous plants.